

THIS MONTH WE SALUTE
All Our Florida Skip
ADVERTISERS,
CORRESPONDENTS,
AND LOYAL SUPPORTERS.
THE VERY BEST TO YOU IN 1968

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FLORIDA SKIP

Vol. 11 No. 8

The All-Florida Radio Amateur's Publication

JANUARY 1968

Price 20c

Overseas Phone Patch

On November 2nd Johnny Williams K4ANJ, past EC and now RACES Communications Officer and Assistant Civil Defense Director for Ocala-Marion County received the "Service Above Self" award at a Chamber of Commerce Dinner with over 500 persons present.

Johnny received the award for his countless hours of handling phone patches to Vietnam ser-

vicemen on MARS frequency. The Ocala Star-Banner for Friday, November 3rd carried a large photo of K4ANJ accepting the award from Congressman Bob Sikes, who was principal speaker at the dinner.

Florida SKIP carried a front page story in the June issue on this Ocala phone patch project which was picked up and reprinted in many SWAP (amateur

radio) papers throughout the country. We'd like to suggest you reread the article to get a full picture on this high award Johnny received.

Florida SKIP would like to offer its' sincere congratulations to Mrs. Williams and ALL other amateurs who have been and are now working the "Viet Nam Phone Patch Project." A job well done fellow amateurs.

Final Reminder Of RTTY Meeting

A final reminder that the annual meeting of the Florida RTTY Society, Inc. will be held Sunday, 7th of January 1968 in the Dobbs House, Daytona Bch, Florida starting at 10:00 a.m.

A full program has been planned including the election of officers for the new year, President's awards, annual report of the Society's activities during 1967, all topped off by an excellent dinner. Reservations are \$4.00 each and should be in the hands of F.W. DeMotte, W4RW-M, Secretary-Treasurer, Box 6047, Daytona Beach, Fla., 32-022 by January 1, 1968.

Motel Hq. will again be the Quality Courts Motel North, 867 S. Atlantic Ave., Normand Bch., Fla. Make reservations thru W4RWM. Single \$7.00, double \$11.00.

Dear Santa Claus —

Here is a list of things I would like to have for Christmas if you think I've behaved well enough all year:

- 1) A vacation.
 - 2) A rectangle laundry basket.
 - 3) An automatic gate closer.
 - 4) An automatic closet door closer for the girls' bedroom
 - 5) An automatic scrubber to get crayon and pencil marks off of walls, furniture, etc.
 - 6) An automatic gadget that will turn socks right side around, roll them up and put them in the right drawer.
 - 7) About ten more hours in each day.
 - 8) An uninterrupted nights sleep once a week.
- Merry Christmas.



CAPE CORAL, FLA. — MAJ. GEN. WILLIAM HAMLIN W4WH (USArct) and ART LYNCH W4DKJ (right) enjoy a chat during Hamlin's recent visit with Lynch at his home in Cape Coral. Hamlin, who headed up Army communications prior to his retirement, now lives in Pompano Beach, Florida. Lynch, who was RCA's first advertising director, operated an amateur radio station at the New York World's Fair. Both are active and can be found on 3940 kc.

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PERMISSION: Anything in Florida Skip may be reprinted in any other amateur radio publication in the world with a Credit Line please.

Dear Mabel XYL Award, c/o Skip, Box 501, Miami Springs, Fla.

FLORIDA SKIP

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IT'S A FACT. Geo. Hunt, W4NUT
1218 S.W. 21st Ct., Ft. Lauderdale.

"Special OT reporter, Lee R. Scaggliozzi, W4VLN, 1226½ -
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33705."

HINTS & KINKS. R. V. Frederick
K4UGC, 460 N. W. 108th Terrace,
Miami 33150.

ONYX, MABEL, THE OLD TIMER
c/o Florida Skip, P. O. Box 501,
Miami Springs 33166.

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do, Fla. 32808

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AD4TZI, Ft. Pierce, Florida

AF MARS, Alan Strauss, WA4JTK,
Carol City, Fla.

NAVY MARS, Jim Wilson W4GDK,
1204 Avocado Isle, Ft. Lauder-
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SUPPORT FLORIDA SKIP
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27 FLORIDA SKIP January 1968

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Suncoast Roving and Floridora,
W4BAV, Sarasota
Indian River ARC, WA4KJV,
Rockledge

Editor's Note

Check Page 13 for ARRL listing.

The staff of FLORIDA SKIP would like to wish you all a very Merry Christmas and a Happy New Year.

Thanks so much for your wonderful support this past year. We hope to continue SKIP as long as we receive your support and encouragement. When it stops, we stop. The Staff receives no pay whatsoever. Our only "pay" is that YOU enjoy the paper.



Letters To Editor

Editor:

I received my second SKIP today and really enjoy reading a partisan publication; partisan in favor of the ham, not one individual or group. Also, I enjoy reading of the abundant activity in this area and plan to participate once I get the swing of things. Have been working in radio for about 12 years but just started in amateur work. Just two questions - who or what is ONYX and why can't he, she or it, say something pleasant and constructive once in awhile.

Hank Eschmann WN4HMB
1265 - A Nevada Ave.
Homestead AFB, Fla.

(Editor's Note: Thanks Hank for kind words. ONYX is Florida Skip's "Ole man" of years gone by, sorry we can't name him. However, you might hear from him direct - donno.)

EDITOR:

Please accept my subscription to your fine publication, FLORIDA SKIP. I am a relatively "new" Novice class operator, and I have really enjoyed the sample copy which you sent me. I find all your articles very informative and fascinating, and I think your service in the "Hambar" is very good indeed. So thank you very much, and I truly desire to become a loyal subscriber for a long time to come.

73, Gary A. Forehand, WN4HOF
Miami

Editor, Florida SKIP,

I just wanted to write and ask you to change my call in your files from WN4EHG to WB4EHG. I took the general exam in Miami on July 20, and got my ticket August 11. I would have written sooner but school started and I've been pretty busy.

I might as well tell you now that our club, the Titusville Amateur Radio Society is very inactive at the present time. The officers are still the same though, as we can't get people to hold an election. I'm in hopes tho that it will pick up soon.

Well I guess that's all. I enjoyed this months Florida Skip very much. (Can't wait for the next one.) So I'll say 73 and find out what my typing teacher is yelling about.

Richard Joerger WB4EHG
133 Pinecrest St.
Titusville, Fla. 32780

Editor:

"Me, oh my!" I don't believe I have ever seen such a good squelch as appeared in the "Letters" column of the December SKIP. In one column K4JJZ continues his tirade against phone patches, saying he's drawing up a petition to the FCC to do away with the evil devices. In the next column, Dr. Putnam, WA4UJX, relates the enjoyment and consolation K4JJZ received when talking to his sick wife via Doc's phone patch not long ago.

Now that K4JJZ has experienced the benefits of phone patches, he has apparently passed judgment that it's

too good for the rest of us rum-dums, and so he petitions FCC to "take 'em away." Reminds us of the story of the Royal King of Duckinny, who upon first experiencing the pleasure of his new bride, said, "Goodness! This is just too good for the common people! I order that it be banned from them all!"

His Majesty does us the favor of condescending to allow servicemen and missionaries to use phone patches, but apparently hams with sick wives in hospitals need not apply, save one, K4JJZ. How about sons at college, husbands away from home, men on our missile tracking stations? Just where and for whom does one draw the line?

If I were a traveling salesman in Tombstone with a sick kid at home, I'd darned well wonder what gives some missionary in Timbuctoo more constitutional right to a phone patch than myself.

Such hypocritical rabble-rousing has no place in amateur radio. There are so many true problem areas which need willing workers; I am sure K4JJZ could find more useful outlets for his egomania without half trying.

Very truly yours,
Whitworth W. Cotten, W4CXQ
512 Conifer Street
W. Melbourne, Florida

Editor:

Well here is a snow bird still up in the snow, over inch on ground and still coming down.

Expect to be back in Bradenton this winter. Keep up the good work on the SKIP. I enjoy it very much.

Will be mobile on 52, 525 FM also 20 meter SSB. Hope to see the gang at QCWA dinners this winter. 73

Robert Hawk W9TRN
Goshen, Ind.

Editor:

Enjoy reading FLORIDA SKIP. It keeps me up-to-date on what is happening in amateur radio back in Florida. Also keeps me informed on my club the Gulfstream Society of AR Ops. Pls pass along my new address as RA 14969960, 592nd Signal Co. (SPT), APO, New York 09742.

73

PFC Edward T. Wilder, WB4AIG

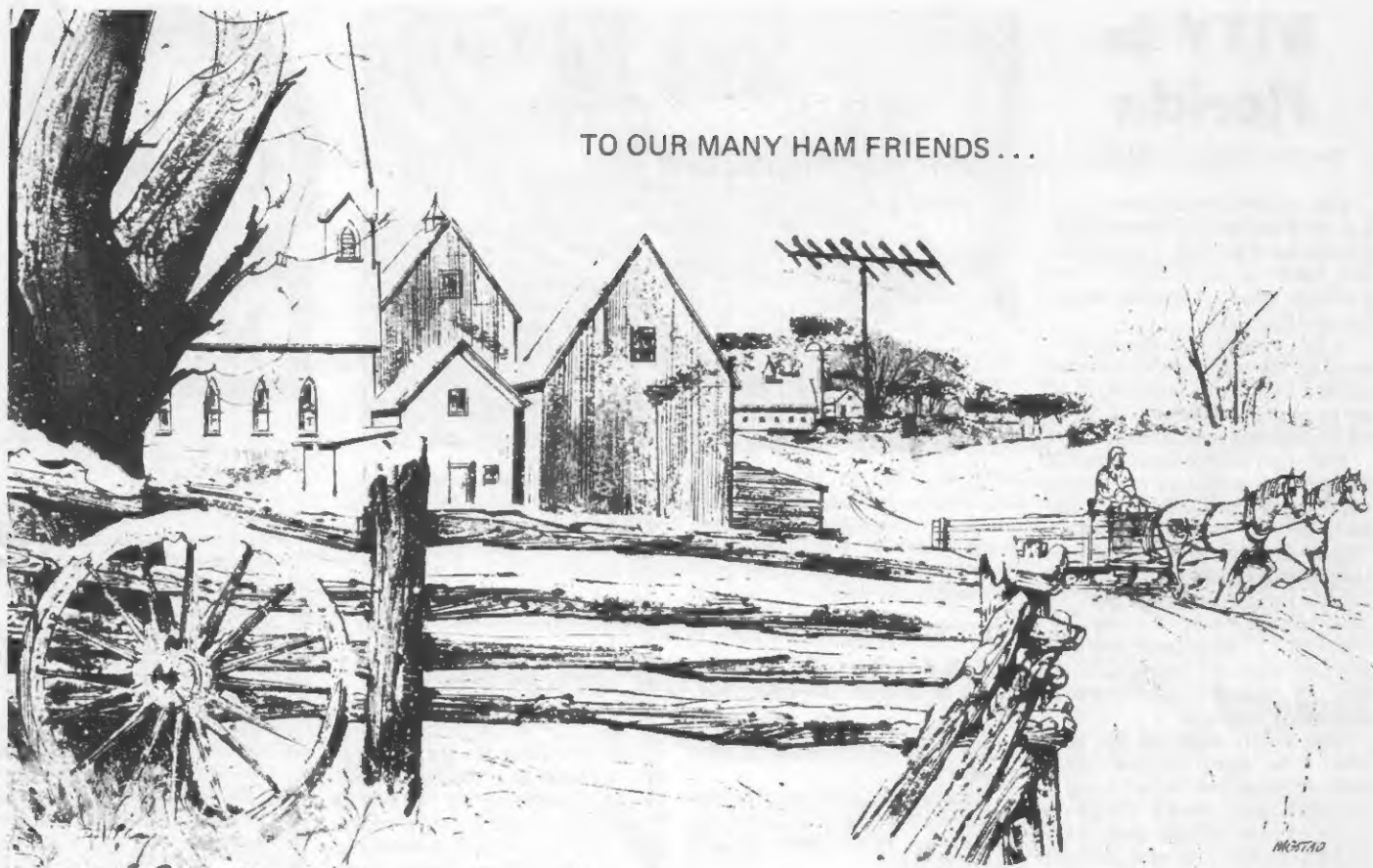
Editor:

Thought I would drop you a line after reading letters to the Editor. Enjoy your honesty in printing pros and cons, also do feel that the old groaning about incentive licensing is getting old. Guess it will eventually go away. Funny the way people holler bum deal and continue on like a broken record when time could be spent advancing the state of the art. Sure glad the Indians did not continue to gripe about the "cracked beads" we gave them for Manhattan Island.

I have installed a tear filter on my bookcase to catch the tears from Florida SKIP for the fellow who cast the first stone with the name calling and requesting his two bucks back. In rebuttle is enclosed is two bucks (less interest) for a subscription. Please

(Continued on Page 15)

TO OUR MANY HAM FRIENDS...



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for happiness in the New Year*

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RTTY In Florida

By Rex Peters, W4ZAG

The Tenth Annual Meeting of the Florida RTTY Society Inc. will be held Sunday, January the 7th, 1968. In the Dobbs House Daytona Beach, Florida, starting at 10.00 AM....

A full program is planned including the election of officers for the new year, and topped off by an excellent dinner...all RTTY amateur are invited.

The FATT (Florida Amateur Teletype Traffic) net meets each night on 3704 Kc and has been for the past three years. There are at present fifteen active members in the net. We handle traffic, pass along RTTY information, help the fellows with RTTY problems and help the new ones get started. Some are not high hat, just break in and enjoy the fun.

The really high hat net is on 3637.5 kc using 170 cycle shift with crystal controlled receivers and transmitters. They have selective calling and time clocks to turn on and off their receivers and terminal units. You can call up anyone of about twelve stations without bothering any of the others, and if you have a QNC or QST you can turn on all stations and when you get through you turn them all off with four 'N's. 73.



MEET ROY SCOTT, W4UHF, of Tampa. Roy works most all bands on SSB and c.w. He was one of the founders of the old Novice Hurricane Net back in the 50's and still active in that net. He received the trophy in the upper right hand of the photo from H.A.R.S. for his work with the novices. Roy is also active in Air Force MARS FL2L2 net on 49.98 mc. Keep up the good work, W4UHF. (Photo by Ed Kutt)

Visit the Goldcoasters

Are you an old timer in ham radio?

Do you manage to get to south-east Florida? Do you live here?

If so, visit the GOLD-COASTERS!

Formed in 1963, with a current membership of about 200 from twenty six states, the Goldcoasters consists of old hands, mostly retired, who meet about twice a month for a fun-luncheon at the Captains Table at Deerfield Beach.

No speeches! No formalities! All guests are cordially welcome. Luncheon is served at 12:30 p.m. sharp. Come early. The interval before lunch is devoted to getting acquainted, lying outrageously about your fantastic feats of prestidigitiation, insulting your friends, ribbing them, preparing the intestinal tract for the onslaught of raw food, and kibitzing.

Upcoming meetings are on January, 8, January 22, February 5 and February 26. For data on subsequent meetings contact the Secretary, Raymond Guy, W4AZ, 2320 N.E. 34 Court, Lighthouse Point, Fla, 305-942-5847.

DON'T FORGET...

FLA. ARRL NET

THURS., 8 P.M.

3950



By Jim Wilson N0WCK
-W4GDK

Florida stands out in Navy MARS operation as a state which has enthusiastic participation in all phases of this work.

CW nets, phone nets and RTTY find large groups anxious to do what they can to enhance the program.

In the Anarctic Phone patch net serving the Navy and civilian personnel at McMurdo Sound near the South Pole, Florida has reliable coverage throughout the week on regular assignments. No other area of the country has multiple coverage of this sort. Our participants are all reported favorably by N0ICE "down there."

In the South Florida Area, Coordinator Jim Cummings N0GAL reports a continuing influx of new members. He and your correspondent are attending the 6th Naval District Navy MARS Conference in Birmingham, Ala. the weekend of Dec. 9 & 10. In this conference with representatives from all over the District it is hoped that many mutual problems can be studied and solved.

In the Northeast Florida Area Coordinator Georgia Deman N0GAJ reports many N.E. Fla. members worked on the "Bring 'Em Back Alive" weekend. Some were: N0REF Jax, N0HWR and N0YJG Leesburg, N0HFZ Gainesville, N0EQW, N0MJG, N0HHT, N0FOB of the Orlando area.

We all in Florida are very proud of the work done by Dist. Dir. Earl Crawford N0ASC and Dist. Coord. Dick Crowell N0ASC/1 on the new monthly District Bulletin. It's a dandy.

We are very glad to have N0-JJB, Tony and N0EWT Lu Delson checking into our district nets from Pensacola. This makes it much easier to move traffic into N.W. Florida.

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ARMY MARS

by Joseph C. Patterson, AD4TZI

Another old friend has been, not so quietly, laid to rest. Officially, in Third Army MARS we will no longer use the terms "cycles, kilocycles or megacycles." Instead, we will substitute "Hertz, kiloHertz and megaHertz," abbreviated as Hz, kHz, and MHz. This in deference to an ancient German physicist, Heinrich Rudolph Hertz who died in 1894 and whose name, for some unfathomable reason, is thus to be perpetuated.

Ah well! As Westbrook von Voorees used to pontificate in sepulchral tones on the old Time Magazine radio program, "Time -- Marches On!" Like good soldiers we will follow our leaders even though some of us, like Gomer Pyle, may for a time have difficulty in keeping our left feet separated from our right and even though a few of us may continue to gripe in standard Army fashion about new-fangled notions that seem to serve no particularly useful purpose. However, the New Year seems like a right good time to turn over a new leaf and get used to using this new terminology.

William Rabenhorst (Will), AD4VWY, comes up with a worth while suggestion for easier group counting in recording

messages. The best part of his idea is that it works. Procure some ruled sheets, such as leaves from a stenographer's note-book. Leave sufficient space at top of each sheet for the complete message heading. Below the heading space draw four vertical lines to provide five vertical columns.

When recording a message, place one group on each line in each column or five groups on each horizontal line. Thus you have only to multiply filled lines by five, plus remaining groups on last line, for total count. Will says he keeps a few prepared sheets on hand so his is always ready in case he has to copy several messages on one net.

Happy New Year, Everybody!

Silent Keys

We are very sorry to report the passing of the following Florida amateurs:

John Lester Payne, W4LP, Orlando, Fla. Nov. 23, 1967

Thomas Hughes, W4PNS, Miami, Fla. Dec. 1, 1967.

Luther M. Holt, W4DAO/DEF, Pensacola.

Wayne Morris, WA4AKS, Tampa. Brother of W4MVB.

Norma L. Queeney, W4LIC, Naples. Wife of W4ACT.



MISS IOWA SAYS she is waiting for you guys up on VHF. Any takers? No - she didn't give us her call letters - only the photo.

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CLUB NEWS

GULFSTREAM SOCIETY

By Al Suhr, WB4AID

Tom Butler, WA4IET, has left for Tubac, Arizona where he will join the Smithsonian Institution Mount Hopkins Project. We will miss him in the Boy Scout Program around the Gulfstream Society of Amateur Radio Operators. He will also be missed by the many hams who were able to work him on his way home from the Smithsonian Astrophysical Observatory at Jonathan Dickinson State Park north of Jupiter. As an observer, Tom made many of the photographs that plotted satellite motion. He was a most interesting lecture participant, always ready with the real dope. We wish him and his family well in their new home.

Sad news again this week when Stan Scalise, W4WZZ announced that he will leave the area around the first of the year. Stan will receive his Masters Degree in Physics from Florida Atlantic University during the middle of December. All of his plans have not, as yet, been announced. Stan is noted for his excellence as an instructor in ham radio in general and in particular for the very fine courses he has conducted in radio theory. Many hams in this area including yours truly can thank this young man for sharing his knowledge to pave the way for their participation in the ham world. He has served as the Station Engineer for WB4FPB, Historian and consultant for the Gulfstream Society of Amateur Radio Operators, as well as being a charter member. We all wish him the best of good fortune in commencing his new career.

Even though we are making such sad announcements, the past year has been very good to the Gulfstream Society of Amateur Radio Operators.

The log shows that we have conducted one radio theory course over a period of six months, eight weeks for the Boy Scouts and the balance for the membership in preparation for Advanced Class exam. We held a demonstration of ham radio at the North Palm Beach Private School, which was a real gasser.

So there you are, we feel rather good about the whole thing and our good score in the ARRL Field Day last June. Hope your Christmas was very joyful AND HAPPY NEW YEAR.

SUNCOAST ROVING REPORTER

By Cathy Soehl W4BAV

The Gator Chapter of QCWA held their monthly dinner and meeting at the Kings Inn, Sun City, Nov. 8th, with 30 in attendance. 50-year QCWA Fla. Gator Chapter certificates were presented to W4ZR-Mark Swanson, W4D-H-Les Pulley, and K4MO-Ed Beane, by W4YK-Bob, Cert. Custodian. W4IE-Charlie Service was presented with a metal plaque in honor of being the 50th Charter Member. Check in to the Gator QCWA Net Sundays 10 A.M., 3913 KC.

WA4AKS-Wayne Morris joined the Silent Keys when he came in contact with 13,000 volts on the job at MacDill AFB. Services were held at MacDill with interment at Arlington Cemetery. WA4ZXG-Bill Bell was member of the Color Guard. Our heartfelt sympathy to XYL-Georgia and brother, W4MVB-Jesse.

WB4EBU-Jack has reactivated the Confederate Rebel Net, Fridays, 8 PM on 50.5 MC.

WA4RVT-Joe Warren has succumbed -- now heard on SSB with his new Swan 250.

SPARC Installation Dinner will be held at the Sand Dollar Restaurant.



"HOW MUCH AM I offered on this Heath transmitter . . ." says Chuck Bolvin W4LVV, SE Div. ARRL Director at the Flamingo Net Bar-B-Q last month. Old-timer W4VGT, far left, gives a VTVM a close inspection. Set the transmitter down boy, it's heavy. (Photo by W4IEH)

St. Pete, Friday, January 12th at 7 PM. Officers for 1968: Pres., W4-JPL-Joe Pitzer; Vice-Pres., W4G-UZ-Carl Forsberg; Sec./Treas., W4TDK-Naomi Spence; Directors: W4KC-Bill Franklin, W4RQZ-"Sim" Simcox, K4KKK-Jim Clark; Honorary: W4RUR-Ed Blatt. W4RUR refused nomination due to ill health, but consensus of opinion is he be kept on the Board as a valuable consultant.

W4GOX-Bill O'Phelan in Mease Hospital - Room 202, Dunedin. Hope he has recuperated as you read this.

WA4VOO-Walter Leveille, former SPARC member, was welcomed back after living in Pensacola past few years.

HAPPY NEW YEAR!

DADE RADIO CLUB

By W4EDP

The meeting on Nov. 21 was a most interesting one given by the Bell Telephone Co. on the subject of lasers. A demonstration was set up with voice transmission from one side of the room to the other over a laser beam of very low power. There was a film shown on the subject also, which was made largely in the Bell labs, showing many of the experimental setups they have for research into the uses of lasers. The color was breathtaking as a laser beam is made up of pure light on one wavelength only, the color being a function of the emitter generating the light. The colors generated are very brilliant and contrast greatly with the background, and the overall picture is rather spectacular.

Starting as of now we will be holding only one meeting a month at the Museum, and that meeting will be held on the third Tuesday of the month, and will always be the program meeting, no business. The business meeting will continue to be held on the first Tuesday of each month, but at some other QTH not definitely known yet. The reason for this change is that the Museum is not able to furnish meeting space for any club more than once in a month. They now have so many affiliated clubs and other activities going on that space is getting to be a problem.

W4LVV, Chuck, the Director of the Southeastern Division of ARRL reports that he got a terrific return on the questionnaires he sent out, much greater than anticipated. They are now in the process of being tabulated

and Chuck expects to learn a great deal about amateur operation in this division from them.

In this last column for 1967 we wish all our friends a Merry, Merry Christmas, and a most happy and prosperous New Year.

WESTERN FLA.

Frank M. Butler, Jr., W4RKH

Pensacola: The Five Flags Amateur Radio Assn. has been formed and membership is open to all local hams. Temporary officers are WA8SQG/4, WA4EPH, and K1ZKR/4. The Red Cross traded its AM gear for a Swan 350 and is applying for station license with EC W4NOG as Trustee. WA8SQG has a Twoer and Big Wheel on the air. WA4EPH, WB4DZH, WA4ECY and WB4GYX were active in Nov. SS. We were sorry to learn of passing of W4DAO/DEF, former SCM of West Fla.

Ft. Walton: W4SMS received Technician ticket. He and WA4EVU are engineering a 2-meter FM repeater station. WA4IYH has a Swan 500. W4MTD is back in town, for good this time. W4UBR will be retiring here after his tour in Viet Nam.

Panama City: WA5FTN/4 is active on VHF with a Knight TR-108.

Chipley: W4IKB picked up 3 new countries on 20m RTTY.

Blountstown: K4YSQ is moving to Port St. Joe.

Apalachicola: W4GWU was appointed EC for Franklin County.

Tallahassee: WA4EOQ keeps phone patch skeds with Ecuador. WA4APB/4 is a regular on QFN while attending FSU; he also QNT's WFPN.

Madison: WA4GHE switched from 6m AM to 2m FM and has made several out-of-town contacts, including W4CYG in Lake City.

B.A.R.C.

By Jim Wilson W4GDK

As President Jack Wainwright and our other officers complete their terms of office we salute them for a job well done. Especially do we thank Jack Wainwright and Jim Young, Hank Navalany, Irv, Heim, John Essock and others for making possible "The B. - A.R.C. Bulletin" - our fine monthly Club paper. By securing a lot of good advertising for it, Jack and the others have made it possible to print extra copies to be given away in radio

DADE RADIO CLUB, INC.

W4NVU

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- MEETINGS -

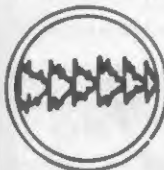
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stores to promote the Club. This aggressive effort is surely paying big dividends in membership increases.

Our new officers will be: President Ivan Peterson W4EOD—Pompano Beach; V.P., Jim Young W4LZF—Ft. Lauderdale; Secy., Roy McCarty W4RM—Ft. Lauderdale; Treas., Charles McGill W4HDB—Ft. Lauderdale; Comm. Ofcr. Tom Middleton WB4CKY—West Hollywood; Tom Middleton also has accepted appointment as ARRL Emergency Coord. for Broward County.

We are working hard preparing for the now famed Auctionfest. Again this year the Club is fortunate in having Chaminade High School in Hollywood as the site of the big event on Feb. 17. Look for further details in SKIP, QST, and CQ magazines. A map giving full directions on how to reach it will appear in SKIP.

The next general meeting of the Broward Amateur Radio Club be at the Broward County Medical Bldg. at 2200 So. Andrews Ave., Ft. Lauderdale, Wed. Jan. 10, 1968 at 8 PM. Coffee will be served. Anyone interested in ham radio is invited. You'll be glad you came

NOFARS NEWS

Howard Kelley, K4DSN

NOFARS start the new year with many projects on their minds. With a new set of officers (not elected by press time) to carry the club on to another successful year, the gang from W4IZ plans to hold on to the Florida Skip Field Day trophy among other things.

On the agenda for 1968 will be settling in a permanent club house and building a club station. More than likely another Novice class will be instituted following the graduation of 20 Novices in the later part of 1967. Many NOFARS have expressed a desire to attend classes themselves to prepare for higher class tickets following incentive licensing.

There is still some unfinished business. Work is progressing with the Jacksonville Area Chamber of Commerce for the possible printing of a local QSL card for Duval County hams. A Crystal Bank is being reorganized for Novice members. And an effort to coordinate some of the activities of all three area ham clubs--NOFARS, Beaches Amateur Radio Society and Naval Air Stations ARS (W4NEK).

NOFARS experienced some fine successes in '67 and a couple of defeats. Looking at the negative first attempt at a massive membership drive died in misery. But, such things as a dinner meeting, FD, regattas, classes, and officers turned out active and enthusiastic participation.

FLA. VHF SIDEBANDERS

R.D. Ralston K4LFF

Greetings fellow hams to a new year and also a new addition to Florida Skip of which I hope to have in better shape as time goes on.

Our new group was put into existence shortly after the Tampa VHF picnic, with the sole purpose to help promote more SSB use of the VHF bands, to have more constant contacts in other parts of the state regularly and if the need arises; to help other hams in passing traffic or helping in any other problem that might arise.

Due to many of the VHF guys and gals being hit by the "certificate bug" we are offering free of charge to all hams outside of Florida, a very nice certificate for working 10 or more

members. This may be harder to get this year but we hope to have many more in the ranks by the end of the year, as more get on SSB and more hear our group.

The first membership will be \$3.00 (which will include a very nice nameplate with call, name, etc.), and renewals at \$2.00 per year. Florida hams may get the certificate only by becoming a member or operating portable or mobile outside the state and working the required number of member stations.

At the present I am hunting for a better typewriter (one that makes less mistakes), or a volunteer for the position of secretary-treasurer for the year.

There will be an informal meeting of the group at the Orlando hamfest, also any one with any questions can contact me on 6 meters or by mail at: 7195-59th St., Pinellas Park, Fla. - 33565 or if in the same area phone 544-2176.

If you want to be sure of having your name tag for the hamfest, please get your order in soon. I have to order 10 at a time.

FORT MYERS

Ken W4SMK

At the November club meeting the following were appointed to committees, W4CQZ and W4KET to the Membership Committee, K4HNV and K4VGN to the program Committee, W4SMK Publicity Committee, K4FQU and K4ZIF to the Social Committee, and the Contest Committee will consist of W4KET, W4WYJ, W4SMK, W4DQE, and K4FQU.

The FMARC will try to start the old club ten meter net going again on 29.0 Mc. beginning in December '67. There was no club meeting this month, but an on the air meeting will be attempted on the third Monday night. There is also considerable two meter activity going on locally once again.

The national Simulated Emergency Test will be held in January this year, and the local AREC group will be activated. We may also take part in the Pageant of Light Parade again in Feb.

W4KET is always building something and this month it's a kilowatt antenna tuner to use on his end fed Zepp. Herb says the low power tuner arcs when he turns on the 4-400's.

W4LNE/MM should be back in port by the time you read this. He had a good trip to Viet Nam and kept skeds with W4KET and others most of the way.

We hope some of the Fort Myers gang resolve to send us some news for this column in the New Year. Now ARL sixty and CU next month.

INDIAN RIVER

M. P. Earnhardt WN4HNE

Well, I guess some of you may have wondered where our club news has been for the last two months. Since we had elections, Don Klobe W4KJV has turned his job as Skip correspondent over to me.

My name is Michael Earnhardt, WN4HNE. I have been a novice since this past Sept. I was quite surprised to be asked to be the Skip correspondent because I have only been a member for about four months. I want to thank every member of the club and especially Don for helping me. O. B. Rawls and Dorsey Dean were instrumental in my becoming an amateur and thanks also to them.

Last month, we invited the area

CB er's and any other persons interested in becoming hams and maybe we will be able to increase the ever-growing number of amateurs. Norm Holzweg, WB4EBH, has completed recording a series of code practice lessons which will be of use for new members and those who would like to increase their speed and try for the higher classes.

Last month, we met at the EOC in Rockledge, and after the regular business meeting, O. B. Rawls gave a talk and demonstration on the operation of the RTTY unit at CD headquarters. Lucky O. B. could put it back together! With Christmas coming up, I imagine many of us will be on vacation and the air waves will certainly be busy.

Sorry the news is not longer this month but next month it will be better. Watch for up coming events in the IRARC!

ORLANDO RAMBLINGS

Hal, W4BKC

Wes Gardner, K4KRG, Emergency Coordinator for Orange County for several years will be leaving the area about the first of next year for a desk job in Washington with the Department of Agriculture. With the job goes advancement in grade and numerous other advantages.

While we are happy to hear of the promotion, believe me he will be missed. He has been Chairman of the Hamfest Committee and very active in the Club. His most recent accomplishment was the very successful

"Bring 'Em Back Alive" exercise over the Labor Day weekend—which resulted in some very favorable publicity for Amateur Radio, state and nationwide. Field Day Chairman Communications Officer, Civil Defense, we could go on and on, suffice it to say if anything was going on Wes was in there pitching. We could use a lot more of that spirit, believe me. Lots of luck in your new assignment Wes, and all our best wishes for success go with you.

The new E.C. for Orange County will be Hal, W4BKC.

It is with deep regret we note the passing of John Lester Payne, W4LP who became a silent key on November 22, 1967.

The fish finally evened things up with Cliff, W4CFA, and ardent fisherman, when he let go of his rod and reel to stretch for a minute and some fish yanked the whole works overboard. So if you see fish trying to catch people grab that rod and reel, it's Cliff's.

A lot of things have happened during the past year—some good—some bad, but what the heck, there are still a lot around alive and kicking. That's something to be thankful for. Have a Merry Christmas and a very prosperous and Happy New Year.

HARS NEWS

By Paul R. Young—W4NQX

Our new President, Herb Brown, W4IMU, with the able assistance of the other new officers, conducted their first meeting at the November 28th

(Continued on Page 15)



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NET NEWS

TROPICAL PHONE

By Ken W4SMK

The QNI and QTC totals were bigger and better than ever for November (see W4MVB's traffic column), and December is starting off in fine style. This is the season we should make a good showing traffic wise if we ever do. Don't be shy about originating some season's greetings and help us put some of these boys to work.

We welcome back John WA4QLZ, who was away taking some Navy training. Also glad to have George WA4NBE in Eau Gallie with us as a net member. We needed coverage in his area badly.

One of the penalties a net pays for having good State wide coverage is that it requires a rather long net roll call. On Tropical we try to hold the roll call down by scratching inactive stations from time to time. Please do not ask to be put on our roll unless you can be fairly active about checking in. If you can make it regularly just send me a radiogram stating your name, call, location and what nights you can usually call in.

Larry W4FHZ in Miami is another new member. He is also the EC down in Dade Co., and we are glad to see more ECs getting active in the traffic nets.

Bart W4SCY has been doing a good job collecting donations for the W4O-VO tone comparator fund.

Jim WA4TWD in Miami helped the traffic count considerably last month with his originations, many of which went to servicemen.

ARL sixty and CU next column.

FLAMINGO NET NEWS

By W4EDP

The entire net membership was shocked and deeply sorrowful upon hearing of the sudden death of one of our members W4PNS, Tom Hughes. Tom died while taking a nap just before net time on Friday, Dec. 1. His droll humor will be missed by all that knew him.

We held one of our transmitter hunts on Dec. 3. The hidden one was WA4-NHT, Mel. He picked out a dandy place out in the boondocks but good. W4GJ managed to get stuck in the sand, not too difficult a feat in that latitude, and we had to gang up and pull him out so he could hurry up and find the transmitter. He did not get in first, however, that honor fell to W4DTJ, Carl, and his band of hidden transmitter commandos. You know, Carl raises all his kids to be transmitter hunters. Kids don't work out too good though for transmitter hiders. I can remember once at least, when Carl was the lost transmitter and I found it easily because one of his youngsters was restless and started to bum around the

neighborhood and I spotted him. Well it is only logic that if sonny boy is here that daddy isn't too far away, and we managed to spot him in jig time.

Ten meters sure has been jumping about every day with DX rolling in like locals at times. So if you're weary of the rat race on twenty and fifteen, and would like to get away from KW alley for a spell, come on down to ten with 100 watts and have a ball.

That is about it for this month, see you on 29.044 Fridays. Drop in and say helo at least, you are all welcome.

Since this is the last of our efforts for 1967 we wish to take the opportunity to wish everyone the merriest of Christmas', and the most happy and prosperous new year ever.

FMTN

W4AKB

By the time this goes to press Christmas will be over and we will be in the midst of the New Year Season. It is therefore appropriate to say: Hope you had a very Merry Christmas and may the New Year bring you all Happiness, Health and Prosperity.

FMTN meets every day except Sunday, at 12 noon EST or 1700z. We welcome all modes, AM, CW, SSB to check-in. Any station desiring to be placed on the roll should address a formal message to the Net Manager. He will see that the Net Control Stations are all advised.

During the month of November there were 26 sessions with 648 stations handling 378 formal messages. Average QNI was 24.9; average QTC was 14.9.

Our Net Manager is W4SDR, Clyde in Daytona Beach and Asst. Net Manager is Herb, K4DAX in Bradenton, Fla.

73, Charlie

SATN

By WB4DSP

It's Christmas time again. This means a huge load on all traffic men. I hope everyone is up to it.

I tuned into a net the other day, and failed to be amused at the proceedings. The NCS seemed to be running an informal QSO party on net frequency. It also took them about a half hour to pass their first message. Even with a large load the NCS failed to move stations off frequency. Am sure the stations with traffic were very annoyed.

It is the duty of the NCS to run his net with crack efficiency and not to bumble and hew and haw and wonder what he should do. His duty is to handle formal traffic as rapidly as possible. Well, enough editorializing...

December finds the SATN very busy with typical QTCs of 15 and typical length of 45 minutes per session. New signals to the net include K3MYS, aL and WA4APH/4. We are happy to have back W9JVV, ed, Terre Haute, Ind., and Doc, W4SME, who has just cured his rig problems.

Was pleased to have Bill WA4NEV on the net with us. Maybe this is a hint to some more of the Florida gang.

The SATN gives real satisfaction in that sometimes it is a real challenge to pull those guys in from New York at night on 75 meters. It's great fun anyway and we still wait to hear from you on 3.945 at 10:30 p.m. nightly except Sundays. 73 Jay.

FLORIDORA NEWS

By Cathy H. Soehl -W4BAV

Floridora Nets: Tues. 9 a.m. 3933 KC; Sun. 2 p.m. 7275 KC.

Nine Floridoras joined in the SPARCYS Christmas Party festivities held at QTH of W4BAV-Cathy. There was much yacking, exclamations over exchange gifts & door prizes, silenced for a short period as the "goodies" were devoured. W4WPD-Shirley had a sample of the plastic coasters, made by W4IUZ-EV to be distributed by Floridoras attending the YLRL Convention at Denver, Colo. In June, W4BAV had on display items received at previous YLRL Convention. After picture taking, all went their way, expressing the fun had & looking forward to next year. Hope more gals can make it.

K4RHL-Elle received a well earned A-1 Operator Certificate. Nice picture and article in Ft. Lauderdale paper re Hurricane Net operations. Congrats.

Floridoras now affiliated with YLRL.

W4QBY-Dorothea has done a fine job as YLRL 4th D.C.; all future news to K4HSC-Meg who will take over this job for next year. This will be the 3rd consecutive year a member of the Floridora has filled the office. We are proud of this honor, but wish we could get news from other areas of the 4th District. W4TVT-Claire, in Va., is the faithful one in sending news.

W4BIL-Fran, K4RNS-Marge and K4HSC-Meg appointed as Contest Committee for 1968. Winners on this year contest were K4RNS and K4BIL tied with 29 contacts; K4NSC - second with 28; W4WPD- 23; W4Cwy- 18; W4UF and W4QBY- 17; W4EHN- 13; W44YNX- 9; W4FE and K4RHL- 8. Better luck 1968.

W4GAN-Melba Jibb, Tallahassee welcome back as member of Floridoras. Join us on the Net, many read you.

QFN REPORT



By Bob Blumberg
WA4OHO

Christmas brought a flurry of traffic to the All Florida CW Net (QFN) and really got things moving. Statistics for the month of November showed that a total of 688 stations passed 421 pieces of traffic in 1033 minutes for a rate of 0.487 messages/minute—a very efficient rate for traffic nets.

Several new net members are in our midst since last report. We welcome W4IJK of Pompano Beach; W4UQZ-Ed of Deland; WB4GBY and W4SRX, who is really WA4LBM Don in disguise at Eglin AFB. Also very glad to have W4FXH and W4GEE active again.

Several new representatives are helping out on the regional nets, including WA4APB/4 and W4TRS, but there are still several vacancies that need to be filled along with Friday and Sunday NCS. Please ARL 7.

Much traffic has been coming onto the net from MARS, as a result of the doings of W4BQW, W4BVE and W4FPC. This Vietnam traffic, if handled quickly and efficiently, can bring joy to the recipient, as well as praise and publicity for amateur radio — so let's keep it up!

Hope everyone is enjoying a Happy New Year. Make this your year to join QFN on 3651 kc/s daily at 2330 and 0300Z. CU therd.

WB4FYD-Margaret and brother flying to Los Angeles and Australia January 17th — 33 day tour. Happy landings.

Happy New Year All.

TOP TWENTY TRAFFIC TAKERS

Each month we are happy to list the top 20 Florida traffic takers. We hope to see your call here next month.

1. WA4SCK	461	11. W4BVE	126
2. WB4AIW	377	12. W4SDR	118
3. WA4NEV BPL	350	13. K4COO	110
4. K4YSN	299	14. WA4TWD	102
5. WA4FGH	255	15. WB4DSP	98
6. W4FPC	242	16. W4SMK	85
7. W4ILE BPL	214	17. W4TRS	68
8. WA4PWF	183	18. WA4HDH	59
9. K4BSS	134	19. WA4OHO	59
10. WB4HKP BPL	133	20. K4SJH	55

TRAFFIC HOUNDS

By Jesse H. Morris, W4MVB

NET	QNI	QTC	SESSIONS	AVG QTC
QFN	688	421	60	7.01
GN	209	159	30	5.3
FATT	194	54	30	1.8
FMTN	648	378	26	14.5
TPTN	558	214	25	8.6
SATN	197	165	25	7.9
FPTN	461	156	26	6.0
FAST	863	154	26	5.9
WFPN			30	



AFB4JTK/AF4BND

All stations running phone patches are reminded not to enter into any agreement with any commercial station, radio station or any other commercial outlet on rebroadcast of phone patches as per aircast # 19 dated 8 Nov., 1967. The following stations completed more than 150 phone patches to and from SEA in the month of Oct. 1916171; AFB6BFG; AFB6FJX; AFB2DBF; AFA7UGA; and AF9BCY. We still have not heard from any Area 2 members phone patching to or from anywhere. Come on fellows, give your area a break, don't be shy.

Some of the frequencies that are available for phone patching are: 14392; 14403.5; 14406.5; 14530; 14830.5; 14830.5; 15635; 15897; 16453.5; 17670; 19938.5; 20810; 20870.5; 20960; and many many more. We will print the other frequencies in the next issue, space permitting. More stations are requesting to get in on the SEA phone patching networks. There are 25 frequencies available, some of which are above. All stations with this capability are requested to participate.

FL2L6 was getting so crowded that they had to split it up. We wish to welcome FL2S9 to the growing mid-Florida area and to the area. This new was an out come of the fine dedication of those in the mid-Florida area who have built their net to such proportions that another new was started. The new net is SSB only. It meets on frequency 49,980 kHz., on Mon., Wed., and Fridays 0100Z or 8 p.m. local time. Net mgr is AFB4LQE, Carl Stowe of Winterhaven, Florida. Ncs is AFA4AAI, Arthur Norman, of Bartow. Alt. Ncs is AFB4ZWW, James Ferguson of Mango, Fla., and AF4DPH of Clearwater. Without the efforts of AGB4DEV, Roy Pintzer of Auburndale, Net Mgr of FL2L6 this net would not be what it is today. Many thanks to those of you who made this new A.F. Net possible.

In the near future there will be a publicity director appointed for each State in the ECR as per a directive from Capt. Antin, ECR Director. Mars is doing a

Set... 1968

As you all know ARRL cancelled the 1967's Simulated Emergency Test (SET) and has reassigned January 27 & 28 this year. This was done, because of the many tornados, floods, and hurricanes running around in October. So who needs a SET in the middle of a hurricane?

By this time all Florida ECS have received info from ARRL regarding this month's SET. It will be up to each EC to conduct his local drill in anyway he sees fit. In addition we request each of his AREC members send a short radiogram via any of our Florida nets to the following: W4FP in Lakeland and W4IKB in Chipley Florida. Other messages may be sent according to instructions received from ARRL. We suggest one AREC member in each county collect all his county's traffic and relay it via his favorite mode -- be it SSB, AM, CW, RTTY, FAX or TV. We care not as long as all traffic gets through in perfect format.

Good luck fellows and don't forget you mail your report to ARRL.

Mr. Broward ARC

Jim Wilson W4GDK, our B.-A.R.C. and Navy MARS correspondent recently received a letter from a company up north which evidently reads Florida Skip regularly.

They may not understand what they read, however, because the letter was addressed to: Mr. Broward ARC W4GDK, 1204 Avocado Isle, Ft. Lauderdale, Fla. (See page 2, Florida Skip and you'll see why).

great service for both military and civilian personnel. The morale of these people is boosted when these messages and patches are passed. Let's keep it up as the top message handling Mars network.

We wish to report that Charlie Charlie was heard at a base station talking to Roger Roger. He almost checked into 2S3 but his keepers kept him out. Keep an eye open for him at your station. If he shows up don't let him into a net, then he will still be anonymous.

Show this column to other hams and mars members. It will get us other information for print. All who are interested in joining Mars can contact any local A.F. Mars member in their state. In Miami, call AFB4JTK at 624-3018 or AFC-4BND at 759-9847.



NO, ALL THE GEAR on the left is NOT ham gear. The little box on right is the one Carlo Marsano WB4AJV/4 uses in Key West. Carlo is a commercial radio op aboard ship which is based at the southernmost tip of the United States. As most of the QFN and GN members know WB4AJV loves his traffic. QRV OM.

TIPS ON EMERGENCY

By Ken Stewart, W4SMK

A few tips to phone ops who might be called on to help in a future emergency.

1. If operating from home be sure your gear is the best you can build or buy with the maximum power output you can afford. You should have VOX and PTT on SSB or Am, a good receiver, strong antennas the first breeze won't blow down, an emergency power source that is dependable, and all the operating aids you need handy. Now is the time to fix your line noise problem, not when a storm is on the way.

2. If you are not an official CD or Red Cross station, or are not the official station representing ARPSC in your County the best thing for you to do is just to monitor the emergency net(s). Keep your mouth shut and your itchy little finger off the button. Give the official local station a chance to answer NCS when called. If he does not reply the second or third time, or if the NCS calls for your city then you can break and offer to help. Otherwise keep quiet. It is not necessary to call the NCS and inform him you are listening. He is busy as heck already and this just wastes more valuable time. If he needs you, he will call you and then you can show whether you are really standing by or not.

3. When you break an emergency net do not just holler "break break." This tells NCS exactly nothing. Break with your call sign, and your call sign only, and stand by. It is not necessary to say "WA4NCS this is W4SMK." The NCS already knows what his call is; what he wants to know is what your call is.

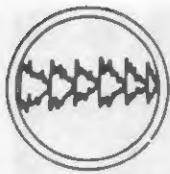
4. Don't be too eager to help the NCS in relaying, etc. unless he requests you to. It is easier for him to ask a weak station to repeat a few times than it is for him to sort out all the stations breaking him to offer help in relaying, and it is usually quicker. We all desire to help, certainly, but sometimes in our eagerness we waste more of the nets time than we should. If NCS decides he needs help he will call for it. Let him be the judge.

5. Be sure you are zero beat with NCS and that you remain zeroed at all times. If you must break a phone net on CW it is best to drop down a Kc. or so to make a beat note NCS can copy. NEVER NEVER NEVER tune up on or within 5 Kc. of a net frequency. This should be obvious, but it is still done much too often.

6. Do exactly as the NCs directs with no comments. If you disagree save your arguments for after the emergency and then hash it out. NCS is boss as long as he is running the net.

7. Brevity is the key to good net operation, both the NCS and all net members should remember this.

8. There is no substitute for experience. If you never operate in a net for 364 days a year you are certain to foul up the one day you try to help in an emergency. Get some experience.



The Florida Sidebanders Association

By K4SRI

The four hundredth meeting of the Florida Sidebanders Association was called to order on the twelfth of November. Fifty-two members and four associates answered the roll. As of the roster of March first on this year the association numbered 293 members, on the twenty-fourth of November the association numbered three hundred and four members (your correspondent is proud to be member number three hundred) but where are the rest . . .

Election is in order again—much credit and honor is due the present officers and those of

time past, for keeping an organization like this functioning.

Silent keys for this month outnumbered new members. Time's running out - already the first of December - gosh - your correspondent better get that buck out to Tony - for everyone's convenience - the address is: Anthony Litschauer, 627 Avenia Alegra, West Palm Beach, Florida 33405.

Seems as if somewhere it has been rumored that we are helping to purchase a tone comparator to keep Jesse, one of our members who's nearly blind, on the air. -22.50 to December third from amateurs, or organization and even from Sil's.

In memorium to all our silent keys:

W4LP - one of the many silent keys for this month—Les Payne its almost unbelievable that he's gone—here's hoping that he's operating as happily in the land beyond as he did here, few knew of the pain and suffering and the treatments that rendered Les almost indigent before he finally passed away - hope always - he never gave in to the hopelessness of fate. From one of many to whom your devotion to our art owes many happy hours, many pleasant associations, may we all take heart and hope from such as you. . . and when that last DX call comes may it be 73 to you.

meaning kilocycles. Only the abbreviation kc/s denotes the number of cycles occurring within a given period of time. The hertz, however, is defined as one cycle per second, and therefore includes the period of time - it is not necessary to add it. If someone tunes his receiver to "1230 kilohertz," we know precisely what he means.

Incidentally, the name hertz commemorates Heinrich Rudolf Hertz, a German physicist, (1857-1894). He discovered radio waves, later called Hertzian waves, and devised the Hertz antenna. We know it today as the simple dipole, antenna not depending on the presence of ground for operation, fed at the center, where current is maximum.

(W8TKS Ham Shack Gossip)
Toledo, Ohio



MEG HENNON K4HSC Route 2, Box 386, Sebring wants everyone to see her new lakeside home, tower and beams. Meg is active with the Floridians YLRL and many other groups. She can be found each Tuesday at 9 a.m. on 3933 kc.

New Term ... Hertz

Recently a new term has popped up in the Radio and Electronic Engineering circles called a "Hertz". You may have seen it referring to 455 kHz or 10mHz etc. Following is an article taken from the MAY 1966 issue of Broadcast Engineering.

Used for some time in other countries, and recently adopted by the U.S. National Bureau of Standards, IEEE, and other American organizations, the hertz is the unit of measurement of frequency. One hertz is the equivalent of one cycle per second. Hertz is abbreviated Hz (no period). In accordance with standard procedure, the first letter of the unit abbreviation; thus, kHz means the same as kilocycles per second and mHz means the same as megacycles per second.

The prime reason for adopting the hertz as the unit of frequency measurement is that it is a more precisely defined unit less subject to misuse than its predecessor. Many people speak of tuning a receiver to "1230 Kilocycles." Such a statement has no meaning, strictly speaking, for while we have been told that the station frequency is such that twelve hundred and thirty thousand cycles occur, we have not been told during what period of time these cycles occur. The precise statement would be "1230 kilocycles per second." The abbreviation kc likewise has no meaning, and neither does kcs, for it is usually interpreted as

What's New On West Coast

The West Coast Amateur Radio Service is an organization of dedicated amateur radio operators who monitor 7255 Kc. during the daylight hours every day for the purpose of providing service to the public and other amateurs by assisting in emergencies, handling traffic, and facilitating contacts. The unique net utilizes fast break-in and brief transmissions to maintain an open frequency for use by mobiles and others. The four-year old service now has 420 members ranging from Washington to Mexico from Utah to maritime mobiles in the Pacific. A formal net session and roll call is held at noon daily to train the members to operate with efficiency, effectiveness, and discipline in the event of an emergency or disaster. During the remainder of the day informal net operation is maintained with at least 50 base and mobile stations standing by monitoring the frequency. Several hundred different stations use the frequency every day, some many times. In a typical day recently, two priority and 14 routine messages were handled, 15 phone patches arranged, and about 250 informal communications completed on or off the frequency -- probably several thousand transmissions in any given day. 10 to 20 emergency messages are handled in a month -- mostly calls from mobiles reporting accidents to be relayed to Highway Patrol but covering the gamut of floods,

fires, lost planes, vessels in distress, and the like. 3952 Kc. has been designated for nighttime operation.

The California Highway Patrol is a charter member of the net, with three Patrol-owned amateur transceivers and Patrol amateur operators available to maintain official liaison with the net under emergency conditions. The net also maintains regular contact with RNE, the Mexican amateur emergency net; the Amateur Emergency Communications System of the U.S. Department of Health, Education, and Welfare; and the California State Health Amateur Radio Emergency Service.

Mobile net members can be identified by a colorful red, white and blue decal in large "7255" in the center. Members receive the Sentinel newsletter each month. Further information on the net can be obtained from President George Lyle, K7ZAU, 1047 Mark Way, Carson City, Nevada 89701. Other net officers are Past President, W6VX; Vice President and Net Manager WB6CBW; Secretary, WA6PTU; Treasurer, WB6LIS; Net Coordinators, WA6WHP and WB6IZF. Directors are WB6DBS, WB6HZZ, W7MEV, W7P-CY, K6QQI, W6ROG, W7ZC and W6ZOM.

Publicity Chairman, WB6IZF
Ed Gribi
229 Vivian Street,
King City, California 93930
Phone (408) 385-3239

VHF - Born in 1884

The curtain was lifted on the field of VERY HIGH FREQUENCY radio transmission on a cold, blustery spring day in the year 1884. At the University of Kiel in Germany young Heinrich Hertz observed transmission of electro-magnetic energy between two resonant spiral coils, one of which was attached to a charged Leyden jar. This history making electronic discharge took place in the region of the present two meter band.

Later experiments by Hertz and Huhmkorff established resonant transmitting and receiving systems for the transfer of this new, invisible radiant energy. The distance covered were minute; the equipment crude. Little did the early pioneers imagine the vast and fertile territory at ments were taking place. It is interesting to note that the first attempts at electromagnetic communications took place in the VHF region, but for years

afterwards this territory was forgotten. The experiments of Hertz gathered dust in archives as the efforts of the radiopioneers followed other phenomena in the low frequency field.

Nearly half a century later in 1932 Marconi established communication over a distance of 168 miles on a frequency of about 500 megacycles, and predicted that extremely short radio waves could be propagated great distances beyond the optical horizon.

Nevertheless, the interest of the radio engineers and amateurs were fixed in the 400 to 10,000 meter region of ground wave communication. (In those

early days, "radiowaves" were generally measured in terms of wavelength, with the Metric System being universally adopted as the standard system of measure). The relatively simple equipment for work at short wavelengths was unknown. At wavelengths below 200 meters the groundwave rapidly expired, and it was deduced that the paths of such waves would end abruptly at the optical horizon. These commercially useless frequencies were turned over to the radio amateurs and experimenters for their use.

-from the VHF HANDBOOK,
by Bill Orr, W6SAI and
Herb Johnson, W6QKI

'BUY FROM YOUR FELLOW AMATEUR' DEPARTMENT

FELLOW AMATEUR: Here are several firms that have an interest in YOUR business! They have seen fit to support the FLORIDA SKIP by giving us a little revenue each month in return

for your support. If you have a need for the services listed, you can't possibly do better than to deal with a fellow amateur, now can you?

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The "HAM'S SPANISH-ENGLISH MANUAL" is designed for Radio Amateurs who want to communicate with the Spanish speaking amateurs throughout the world. It is written just as you would be talking to any HAM. The words are translated in phonetics for easy pronunciation and understanding. Expand your Latin-American QSO's, they are waiting and very happy to QSO you.
LU7FAG Gus

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Clearwater, Florida 33516
K4OF1
Amateur Radio Supplies

Chemical Promises To Boost Signals

(Editor's Note: The following was sent to us by Leo Scagliozzi W4VLN, our SKIP special reporter. Leo clipped it from an Ohio newspaper. You'd better keep an eye open for a can "Volto.")

Ham radio operators who want longer range and clearer signals will soon be able to buy a new chemical product which promises to boost signal strength substantially and reduce interference by a simple application to the electrical contacts of their equipment.

Corporate Management Inc. of 76 Brick Church plaza, East Orange, announced recently that they have been appointed sole agents in the United States for the sale and distribution of Volto, product of Contacto, S. A. Panama City, Republic of Panama.

Volto, a new chemical compound developed by Dr. Walt Phillips of Newark, has been tested over a six month period.

After one application of Volto to the battery terminals, antenna and connectors of an amateur radio mobile station the operator stated, "There has been an increase in overall performance, both in reception and transmission. I was able to pick up signals which until that time were strictly unreadable. On the air signal reports were higher than previous, and contact on the 6 meter band showed an increase in my signal strength of approximately 3.4 db. There was no noticeable

change in VSWR after application."

Other Uses

Tests by independent test laboratories showed equal results. When the chemical was applied to the ear receiver terminals of a telephone.

When applied to the battery terminal of a small transistor radio receiver, the output at the speaker was increased 13 per cent, according to reports.

Volto will be available in one ounce containers for the use of ham radio operators, on a money back guarantee basis, patents pending.

Dr. Phillips, who developed the chemical, was born in Germany and received his Bachelor of Arts degree from Manchester University there. He continued his studies at Central University in Madrid, Spain, receiving his Ph. D. degree in language there.

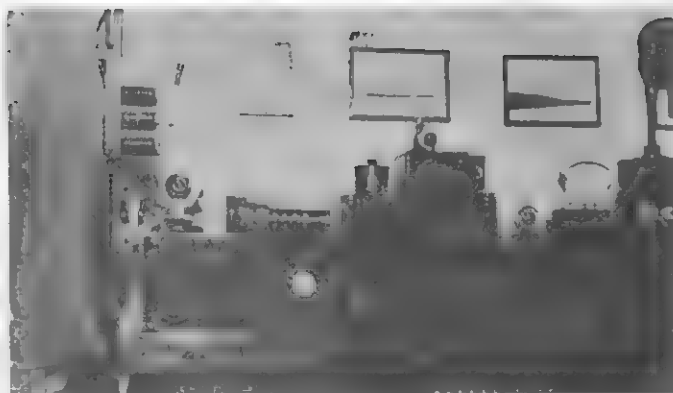
While maintaining his own research laboratories he has secured 10 U.S. and foreign patents dealing with fuel improvement and combustion and has also secured a U.S. patent to intensify food flavor for special diets, without Sodium present.

SUPPORT FLORIDA SKIP ADVERTISERS



WATCHING THE BIDS at the Flamingo Bar-B-Q picnic last month were: W4HIS, W4BYB (SKIP Florida QSO Party Chairman), K4JWM (Pres. Dade RC) and K4DJW, editor of the famous Phone Directory. (See his ad elsewhere.) All four are from the Miami Area.

(Photo by W4IEH)



THE OWNER of this station was real happy. Why? Because it was one of the best on the air -- then. 2CY's half KW spark did real well according to Tom W4FP now living in Lakeland. Tom retired from the Bell (AT&T) Labs in New York and now enjoys hammin' on 75, 40 and other bands.

(Photo by 2CY taken in 1919)

'SKIP'-eroo's THE BRAIN DEPARTMENT

Unscramble each line of letters and insert them in order in the box or boxes at the bottom of the boxes to the left of them, to find the answer to this month's puzzle. Each line forms a common puzzle. Correct solution in next word, mostly electronic, which months "Skip". This month's "SKIP"-eroo must be in the proper order to give the correct solution. Then submitted by "Bob" W4CJV. unscramble the letters within

NO. 9 -- "USUALLY BEFORE THE END"



EIGHTVN



NIDIGWN



ECSENR



CIGULOPN



EIROTSRS



ADEGNG



SOLUTION TO NO. 8

POWER
BRACKET
GRID

FUSED
CAPACITOR
HENRY

"RAG CHEWER"

Have you got a puzzle or a SKIP-eroo? If so, submit complete with solution to K4FQU, 1413 Davis Dr., Ft. Myers, Fla. 33901

Upgrading Licenses

Incentive licensing was proposed by the American Radio Relay League and adopted in the summer of 1967 to bolster the hobby of ham radio, which has been hurt by the immense popularity of CB radio. Instead of having to apply for a Novice license, a would-be communicator could bypass this stage by applying for and receiving a CB license.

Newcomers began to look elsewhere than amateur radio for enjoyment and fulfillment in electronic communications. Old-timers bemoaned the fact that most new licenses were coming from CB ranks, untrained and largely uninterested in why the equipment worked. They were operators, untrained in the construction or even repair of their own gear.

Incentive licensing has wrought sweeping changes in ham radio. Privileges are being taken away from one group and passed on to another. Frequencies are being cut (drastically in some cases), and something new is being created: "exclusive reserved bands," something the United States has never known in its Amateur Radio Service. Whether the incentive program will achieve all its goals remains to be seen.

AMATEUR RADIO INCENTIVE LICENSING STUDY GUIDE, by Robert M. Brown, K2ZSQ/W9HBF, and Tom Kneitel, K2AES, has been written both for newcomers to ham radio and for those "old-timers" who are affected by incentive licensing. The book contains all the new FCC regulations and band allocations concerning new incentive licensing regulations, and questions and answers covering the new Advanced-Class license and the modified requirements of the Extra-Class examination. Sample examinations for Novice, Technician, Conditional, and General-Class license examinations are included. Also included are sample FCC forms and instructions for filling them out, and addresses of examining offices with schedules of their examination dates. In short, the book is a complete study guide to aid the reader in upgrading his present license.

The multiple-choice questions are as close to actual FCC examinations as possible, and each test is followed by a formal study guide prepared

What Is QFN?

Regis Kramer
W4ILERMEFLA

QFN is the All Florida CW net. It therefore embraces the two ARRL sections E Fla and W Fla. We meet seven days a week on 3651 kc. There are two sessions, the first at 2330z, the second at 0300z.

QFN is the ONLY net in the state that has DIRECT liaison into the National Traffic System. Each night QFN sends a representative to the FIFTH Regional Net and a REPRESENTATIVE to the FOURTH Regional Net.

The REGIONAL nets send representatives to the AREA Net.

4RN is part of the EASTERN AREA NET (EAN)

RN5 is part of the CENTRAL AREA NET (CAN)

You can readily see therefore that a member of QFN has unlimited possibilities to further his stature in the NTS.

In addition to being a "cog" in the "gears" of the NTS, QFN offers the following:

1. Good fellowship
2. You automatically receive our QFN Bulletin. Two full pages of "up to the minute" news and views of our three Florida CW Nets.
3. QFN Flower Fund
4. Recognition for your participation. Section Net Certificates, ORS Appointments.
5. Plenty of Challenge. (chance to increase your code speed)

Let's hear those new QNIs. We'd like to have you.

73, de Reg W4ILE

with the cooperation of FCC officials. Additionally, the full text of the incentive licensing rules changes appears in the first chapter as a handy reference.

Copies are available from electronics parts distributors and bookstores throughout the country, or from the publisher.

Howard W. Sams & Co., Inc., 4300 West 62nd Street, Indianapolis, Indiana 46206.

Amateur Radio Incentive Licensing Study Guide, Size: 160 pages, 5-1/2 x 8-1/2". List price: \$2.75.



Florida SKIP DIRECTORY

Each month you will find the following listings. Keep it handy. ARRL Officials are listed free. Florida Nets are listed free upon notification from net manager. Clubs listed for \$12.00 per year. (Free to clubs taking box ads elsewhere.) Any individual amateur may be listed for \$5.00 a year. (The ones who really care.) Let's fill up this page!

ARRL LISTINGS

Director, S.E. Division
CHARLES BOLVIN W4LVV
2210 S.W. 27th Lane
Miami, Florida 33133

Vice Director, S.E. Div.
A. L. HAMEL, K4SJH
220 N.E. 25th Street
Pompano Beach, Fla. 33064

SCM E. Florida
JESSE MORRIS, W4MVB
P.O. Box 1241
Jacksonville Beach
Florida 32051

SCM W. Florida
FRANK M. BUTLER, Jr. W4RKH
323 Elliott Rd., S.E.
Ft. Walton Beach, Fla. 32548

SEC East Florida
ANDY CLARK, W4IYT
41 Lenape Drive
Miami Springs, Fla. 33166

SEC West Florida
G.D. McKECHNIE, W4IKB
1000 N. 6th Street
Chipley, Florida 32428

Asst. SEC East Florida
TOM CHISHOLM, W4FP
P.O. Box 2273
Lakeland, Florida 33803

All clubs & nets are urged to join this directory.

CLUB LISTING

DADE RADIO CLUB, INC.
(W4NVU) 1st & 3rd Tuesday,
Museum of Science
3280 So. Miami Avenue
Miami, Florida
Mailing address: P.O. Box 73
Biscayne Annex
Miami, Florida 33152

NORTH FLORIDA AMATEUR
RADIO SOCIETY
2nd Thursday, 7:30 P.M.
Duval CD Headquarters
107 Market Street
Jacksonville, Fla. 32202

ST. PETERSBURG AMATEUR
RADIO CLUB, Inc. W4GAC
Meetings: 1st Friday
FPC Lineman's Assembly Hall,
25th St. & 25th Ave., N.
Mailing Address: P.O. Box 4026
For information phone:
544-1856 or 526-6731

NET LISTINGS

QFN (all Florida)
Daily 2330 & 0300Z
3651 kc. Net Managers
W4BVE/ W4A0HO

FSBA Sundays
2200Z on 3940 kc.

FSBEN Thursday
0030Z on 3940 kc.

KNIGHTS OF KILOCYCLE,
Sundays,
1200Z on 3910 kc.

GATOR NET (GN)
Daily 1330 on 3651 kc
and 1630 on 7115 kc
Net Manager: K4C00

TROPICAL PHONE TRAFFIC
'NET (TPTN)
Daily except Sunday, 2000z on
3945 kc.
Net Manager: W4SMK

INDIVIDUAL LISTINGS

"SLIM" and BERTHA EGGERT
W4A4ZZ/W44BMC
1510-17th Avenue-North
Lake Worth, Florida 33460
Regards to all our friends.

January 1968 FLORIDA SKIP / 13

Radio Course

Registration is now open at the Southwest Miami High School for evening classes in Amateur Radio beginning January 3, 1968. Classes are held Mondays and Wednesdays, 7-10 PM. The registration fee is \$2. The text used is the AMECO Amateur Radio Theory Course, \$3.95, obtainable at your radio supplier.

10 Commandments of Electronics

1. Beware of the lightning that lurketh in an undischarged capacitor, lest it causeth thee to be bounced upon thy rear in a most ungentlemanly manner.

2. Cause thou the switch that supplieth large quantities of juice to be opened and thusly tagged, so that thy days may be long on this earthly vale of tears.

3. Prove to thyself that all circuits that radiate and upon which thou worketh be grounded lest they lift thee to Radio Frequency potential and cause thee to make like a Radiator also.

4. Take care thou usest the proper method when thou taketh the measure of high voltage so that thou doth not incinerate both thee and thy meter. For verily, though thou hath no account number and can be easily surveyed, thy meter doth have one and as a consequence bringeth much woe unto the storekeepers.

5. Tarry thou not amongst those who engage in Intentional Shocks, for they are surely non-believers and are not long for this world.

6. Take care thou tampereth not with interlocks and safety devices, for this doth incur the wrath of thy foreman and bringeth the fury of the Safety Engineer about thy head and shoulders.

7. Work thee not on Energized Equipment, for if thou Doeth, thy Buddies will surely be buying beers for thy Widow and consoling her in other ways NOT generally acceptable unto thee.

8. Verily, verily I say unto thee:—NEVER service equipment alone, for Electric Cooking is oft-time slothful process and thou might sizzle in thine own Fat for hours on end before thy Maker sees fit to end thy misery and drag thee into his fold.

9. Trifle thee not with Radio-active Tubes and Substances, lest thou commence to Glow in the Dark like a lightning bug and thy wife be frustrated nightly and have no further use for thee except for thy wage.

10. Commit thee to memory the words of the Prophets which are written in the instruction books and manuals which giveth thee straight Dope and which consoleth thee, and thou Cannot maketh Mistakes, and thine offspring will revere thee. Yea, even unto the Day that thou doth make final payment unto the Credit Union.

KZ5MV

Whisperings From An Assistant SEC

Thomas W. Chisholm W4FP

The ratio of ARPSC members to amateur population in E. Fla. is from 1.5:1 to 30:1. These figures come from the monthly reports by the EC's which are important and should be mailed around the 25th of each month to the Ass't SEC.

The 1966 ARPSC report which is compiled by ARRL, indicates that only 26.2% of the EC's in the U.S. and other Divisions sent the yearly report cards to ARRL and the SEC's. The report reveals that ARPSC has 7,652 members, of this 5,188 are full, 2,464 limited. Most active are 4,170 on 75 phone and 2,465 on cw telegraphy, with the total drills on all bands 13,993. Active mobiles 2744, and out of 317 nets only 63 were NTS affiliates. More on this next month.

Too often I hear the value of amateur emergency services

being criticized and questioned, mostly by "newcomers." This is indeed sad and shocking news, at least to me. From my "Disaster File" I have selected a syndicated item which was published May 19th, 1964 under "DEAR ABBY" (Abigail Van Buren).

"What a heroic job our Radio Hams did, working day and night to relay messages to loved ones and the American Red Cross. And the generosity of our sister states. I could go on and on. Let no man say that we are soft, that we Americans are weak. I have seen our strength and I am overwhelmed."

This fine tribute to the Radio Amateurs was signed "A PROUD ALASKAN". Such appreciation is well deserved. This service rendered by the amateur is not pointless or absurd so some would have you believe. It is very high on the

scale of social values. Dostoevsky, who left this little world 86 years ago put it this way: "If it were desired to crush a man completely, to punish him so severely that even the most hardened murderer would quail, it would only be needed to make his work absolutely pointless and absurd."

Be proud of your ARRL service heritage, even though you might be anti-ARRL, join the ARPSC.

QSL OF THE MONTH
Sent in by W4QV

W6IBU/4

KEY WEST, FLORIDA



ARMCHAIR COPY

DEADLINE — JANUARY 29, 1968
"To All Active Florida Amateurs"

If you want to be listed in the 7th Edition (no charge for listing) you must send in your Call, Class of License, Name, Address, Phone and Zip Code numbers to the:

HAM PHONE DIRECTORY
1136 S.W. 74th Court, Miami, Fla. 33144

— BEAT THE DEADLINE! —

OLDEST PHONE NET
ON AIR

**KNIGHTS of
KILOCYCLE**

SUNDAYS

3910

7:30 A.M. Nov. to April
7:00 A.M. April to Nov.

HAMBAR

HAMBAR services of radio equipment **ONLY** will be available to all our subscribers, amateurs or non-amateur, at a donation rate of 25¢ or more for ten (10) lines and 5¢ a word thereafter. There are approximately seven words to a line. Space permits only one ad per month please.

Non-subscribers rate is \$1.00 for ten lines and 5¢ each additional word.

To Commercial Business: Classified, undisplayed - 50¢ per line; Illustrative or General Display with border - \$3.50 min., \$80/page; Initial cost of cuts, additional. Cuts furnished, no charge. Deadline 10th of month.

An Advertising inch is measured 7/8" vertically on one column, i.e., 4 columns - 40 column inches to a page. Rate card by column inch supplied upon request. **FLORIDA SKIP, Advertising Department, P. O. Box 501, Miami Springs, Fla. 33166.**

NOTICE: AMATEUR RADIO COURSE: Registration is now open at the Southwest Miami High School for evening classes in amateur radio beginning January 3, 1968. Classes are held Mondays and Wednesday, 7 to 10 p.m. The registration fee is \$2.00. The text used is the AMECO Amateur Radio Theory Course, \$3.95 obtainable at your radio supplier.

WANTED: Manual, schematic or info on Wilcox 100 W transmitter using 813 final. Would like to borrow copy or will buy. "Army" Armstrong, K4EOD, 5881 N.W. 14th Ct., Ft. Lauderdale, Fla. 33313. Phone 581-6556.

FOR SALE: Drake DC-3 power supply in original carton \$80.00 firm. FOB Jax. Pres Graham W4FDA, 705 Mayapple Rd., Jacksonville, Fla. 32211. Phone 725-4453.

FOR SALE: Heath HW-22A, mike, and a.c. supply. Factory aligned, perfect condition. \$130.00 or trade for good receiver. Will sked. Ken Stuber WB4CQJ, 200 N.W. 40th Court, Pompano Beach, Fla. 33064. Phone 942-7854.

FOR SALE: SB-10 excellent \$50.00. DX-100 with all mods. \$50.00. Heath AM-2 SWR meter \$10.00. Ernie Baldini K4RBD, 453 Watts Way, Cocoa Beach, Fla. 32931. Phone 305-783-7202. Can possibly deliver in Fla.

FOR SALE: Collins 30L-1 linear, \$295.00. Millen 1 kw Transmatch \$75.00. Package deal 10% off. No shipping. WA4QPR, Wolford, 15 Ash St, Oakside Trailer Pk., Zephyrhills, Fla. 33599

AMATEUR - WHOLESALE ELECTRONICS (division of International Electronic Systems, Inc.) 280 Aragon Avenue, Coral Gables, Fla. 33134
TREMENDOUS AFTER CHRISTMAS SALE
WRITE FOR LIST
No one anywhere will beat our price! Come and see us.
Phone 444-6206
Paid Adv.

FOR SALE: From Estate of K4TMN, Collins 75S1 receiver \$250.00 and Gonset GSB-2000 PEP linear \$175.00. Both in excellent condition. Contact Ted Wayne WB4CBP, 8250 SW 108th St., Miami, Fla. 33156. Phone 271-4796.

FOR SALE: Heath SB-200 \$180.00. HA-10 linear \$175.00 with manuals, mint. FOB Sebring, Kris Krysiak W4FCP, P.O. Box 465, Sebring, Fla. 33870. Phone EV 5-7353.

FOR SALE: Collins 75S-3B receiver, late serial, modified by W2VCS, extra 200 cycle filter \$475.00. A.R. Marcy, W4ID, 461-3rd Ave., Sea Park, Eau Gallie, Fla. 32935.

WANTED: The Country Cousins in furtherance of projects for the handicapped need fiberglass quad arms and will purchase these for nominal sums. Contact Ted Wayne WB4CBP, 8250 SW 108th St., Miami, Fla. 33156.

FOR SALE: Clegg 99er, good condition \$75.00. Utica 650 with VFO \$100. or swap for HW32A. K.O. Nordine, WA4UYO, 4048 SW 8th St., Ft. Lauderdale, Fla. 33314.

FOR SALE: Regnair model 321 Tri-band Quad, \$50.00. Used one week for comparative purposes. See Herbert W. Gordon Co. ads in Sept. and Nov. 1967 "CQ". William C. Thomas, W4CG, 8642 Beacon St., Fort Myers, Fla. 33901.

WANTED: A 60 foot galvanized tower, Rohm or E-Z way, prefer crank-up, tilt-over. Will consider HAM-M and tri-band (or larger) as part of a package deal. Cash. Jim Moran WB4FMZ, 4205 Arthur St., Hollywood, Fla. Phone 983-9238.

AUCTIONFEST: The twelfth annual Broward Amateur Auctionfest will be held on February 17th at Chamlinade High School, 500 North 51st Ave. (One block north of Hollywood Blvd.), Hollywood, Fla. Turn your unused equipment into cash. Doors open at 8:00 A.M., auction begins at 9:00 AM until 5:00 PM. Free coffee. (Pd. adv.)

FOR SALE: Knight T-60 all bands 6 to 80 phone and c.w. with manual \$35. Knight R-55 general coverage, band spread on amateur bands. OK for beginner or SWL, \$35.00. Collins ART-13 complete unmodified \$25.00. W.U. model 14 typing-tape printer \$10.00. Encased 12 inch speaker \$4.00. Commercial built line amp. 500 to 500 or 8 ohms \$5.00. TV replacement transformer high current ratings \$3.00. All FOB. Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, Fla. 33166. Ph. 888-3874.

BROWARD Amateur Radio Club, Inc. W4AB meets 2nd Wednesday of month at the Broward County Medical Building, 2200 S. Andrews Ave., Ft. Lauderdale, Fla. at 8 p.m. See Auctionfest ad elsewhere in HAMBARS. (Pd. adv.)

FREE! Yes, that's right FREE, FLA. SKIP is again mailing their famous little calendar (1968 that is) to all its subscribers. Just the right size in the ham shack. Shows last, present and next month in large clear numbers. Just drop a self-addressed stamped envelope (6" or larger) to: SKIP, BOX 501, Miami Springs, Fla. 33166 and we'll shoot it right back to you. OK?

FOR SALE: Time, 4 months old \$10. Drake Hybrid pack \$20.00. 30 ft. Rhone Tower AR-22 rotator and indicator with 10 ft. 2 inch pike \$60.00. Sol Katz WB4EZZ, 29-20 Point East Dr., Miami, Fla. 33160.

WANTED: Manual instructions for Hikos model 191-X signal generator. Will copy and return or give fair price. R.B. Murphy K4AO, 572 Miller Dr., Miami Springs, Fla. 33166. Phone 887-1457.

FOR SALE: KW final with 2 250TH's complete with power supply, 2000 to 3000 v. d.c. at 1 amp. Mod by 813 in Bud cabinet. Make offer or trade, 2-2DB \$20.00. Tube check with volt meter \$10.00. HT-3 perfect \$40.00, also 20 meter vertical \$10.00. 10, 15 and 20 meter vertical \$10.00. 12 inch Hammilund speaker. Two 20 inch trumpet 25 watt speakers \$25.00 each. Extra 813's 250th etc. Need some? W.B. Bell W4BB, 224-79th Ave. N.E., St. Petersburg, Fla. 33702. Phone 527-1565.

SELL, no trades, prices firm. Unloading some triplicate equipment. Gonset VHF 3065 linear P.A. 6 meters with 2 spare 826 tubes \$70.00. Johnson Challenger F/W with PTT 6 to 80 meters with Johnson 6-2 VFO \$75.00. Both units like new. Have large collection of spare HRO and H-RO 50-60 coils for cash or trade. T. W. Chisholm W4FP, P.O. Box 2273, Lakeland, Fla. 33803.

FOR SALE: VHF-1 Heath Seneca transmitter \$100.00. NC-270 receiver \$100.00. DX-60 Heath transmitter \$40.00. HG-10 VFO \$20.00. 5 element HI-Gain 6 meter beam \$5.00. Mel Brooks K4MZH, 8516 SW 15th Ct. Ft. Lauderdale, Fla. Phone 581-4199.

ODD month and years of QST and CQs. What do you need? 15 and 25 cents each. Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166. 888-3874.

FOR SALE: Hallicrafter SX-140 6 thru 80 with cal. xtal and manual \$35. Drake DC-3 mobile supply with mounting \$100.00, cost \$150.00, used twice. Hustler mobile antennas 10 thru 80, bumper mount and motor interference filters. Half price. W. Guy Watson WB4HWZ, 2550 N.E. 20th Terr., N. Miami Beach, Fla. 33160. Few blocks south of Dade-Broward line near Dixie Hwy.

FOR SALE: Hallicrafters 12 v.d.c. supply, PS-150 \$50.00. Hallicrafters HT-46 \$250.00. Hallicrafters SX-146 with 6, 3 and 500 cps filters and crystal calib. \$200. 4 boxed RCA-8122 \$25.00. 1 Elmac 4-400A (boxed) \$25. 2 FTR 8002R, 1200 watt fin cooled triodes at \$10.00. 2 RCA 6.3 v. filament xfmrs at 20 amps with 130 v. bias windings (115 a.c. primary). \$10.00. 2 ARC-453 B command LF receivers at \$15.00. SWAN 500 \$425. a.c. power supply \$50.00. Following used, good condition: Central electronics MM-2 RF analyzer with 50 or 450 kc r.f. units. \$50.00. gates Stal-Level 40DB compressor (unused) \$50. DuMont 274 5 inch scope \$50.00. Lo Cap Fil. xfmr for GG 5 to 16 volts at 55 amps \$15.00. 8 or 16 volts at 45 amps filament xfmr with 230 v.a.c. primary \$10.00. Pi-corder battery type tape recorder \$15.00. Collins KWM-1 mobile rack \$25.00. Elmac 1500 T (Checks very good) \$10.00. 8002 R like new \$15.00. Johnson 1,000 ufd variable at 9 K.V. \$10.00. Numerous centrg. blowers \$5.00. E. Adcock, W4GL, 1340 NE 103rd St., Miami, Fla. 33138. (Paid adv.)

LETTERS TO EDITOR

(Continued from Page 2)

send to **FLORIDA SCHOOL FOR THE BLIND** or if they already subscribe extend their subscription. Must QRT and crack the books. Have new motto "advanced on Extra Class before the year can pass."

73
George WA4NBE
Hog alley land of the
outstretched Palm.

EDITOR:

Renewal check enclosed. Earning a living cuts down on my hamming time but always take time to read Florida Skip cover to cover and find it hard to criticize. Of course since just got over being a Novice - WN4-DYM and now only a Tech WB4HZE, don't feel that I can add much to Amateur Radio yet. (Unless it is to devise a muzzle for some of the opinionated and sour sounding critics of ARRL, QST and sometimes yourselves, Hi). Have read QST off and on for nearly 40 years - boy they are even starting to transmit ESSA APT data next month how anyone can be a Ham and also be against the people that have made - to great extent - the hobby what it is today, really jammsme.

Enjoy the Hambar and the very fine printing and make-up.

73
Norm, WB4HZE
Anna Marie, FLA.

HARS (Cont. from page 7)

meeting of the Club. It seems as tho a change in administration is good for attendance. New blood - new ideas - new ways of conducting a meeting - new faces to look at, all contribute to good attendance and coupled with an excellent program, arranged by Frank Ryan, WB4ETO, Program Chairman, added many visitors to this particular meeting.

The program was conducted by Bob Austin of the Public Relations Department of General Telephone Co., and consisted of a very interesting lecture with colored slides and a demonstration of communication with the laser beam, which is the transmission of sound over a beam of light so intense that it has been bounced off the moon in actual experiments.

The December meeting was moved up to the 3rd Tuesday in the month, due to Christmas. This meeting, was therefore, on the 19th of December instead of the 26th.

The Club will continue to hold its meetings in the Odd Fellows Temple, 6220 Nebraska Ave., Tampa, Fla. As always, visitors are welcome at all meetings held the 4th Tuesday of each month.

The new officers were officially inducted into office at the December meeting and we are looking forward to an enthusiastic year of activity under our new administration including an expanded Education Program.

A new Novice Class is being organized and will be under the able guidance of Jim Godward, WA4DDG. Many have already signed up for this class, but no starting date has been announced. It will probably get underway as soon as 25 to 30 are enrolled. Anyone interested, contact Jim.

Before it's too late, the Officers and Members of Hillsborough Amateur Radio Society wish to extend sincere Holiday Greetings to all. 73.

The Solid State of the Art...

A continued series dealing with the theory and practices of
SOLID STATE or the SEMI-CONDUCTOR types of electronic components.

by EARL SPENCER, K4FPD

Chapter One

WHAT ARE SEMI-CONDUCTORS?

For almost half a century the well known vacuum tube has dominated a position of importance in the electronics world. They have performed every type and kind of service necessary to the workings of the industry. In the past ten years a great change has taken place in the field which has pretty well made the tube assume a back seat role in most nominal uses save those of special instances such as high power RF and DC applications.

The drawbacks are many when comparing the aspects of tubes versus solid state components. Tubes, which are bulky, require room not only because of size but because they radiate heat due to the use of a high filament current. This heat can also cause a tube to be unreliable over a period of time. Tubes can pick up and amplify stray RF as well as radiate the same RF. Tubes are microphonic by nature thus being impractical for rough mobile use. There are many more drawbacks pertaining to the tube which will not be noted here but none the less the tube is slowly dying component.

While the tube will not be replaced entirely, at least not in the near future, the industry has made great use of an entirely new class of material which has amazing abilities in the control of electron flow within a solid material. These are semi-metallic components in which conductivity is electronic, but of different types, depending upon the character of their manufacture. They operate mainly upon the principal of drifting electrons which are present in excess or by the drifting of

"holes" left by electrons when a deficiency of electrons is present in a material.

By specially treating the material in manufacture the resistance, the temperature co-efficiency of resistance, and or the electric power may be varied over a wide range within the component. This ability to vary the electric current within the SEMI-CONDUCTOR is the basic principal behind the transistor.

SEMI-CONDUCTORS are finding increasing use to the industry in such fields as rectifiers, amplifiers, detectors, switches, sensors, etc. The list is long and growing longer daily. There are hundreds of types and kinds of SEMI-CONDUCTORS which will be covered much more intimately later on.

A LITTLE HISTORY

Most of us at one time or another, mostly when we were younger, actually used the first crude type of SEMI-CONDUCTOR as far as 40 years ago. Who remembers listening to a station on a receiver built around a cats whisker crystal? This was nothing more than a piece of Galena crystal which was probed by a tiny piece of wire until a sensitive spot was located. Imagine then a small crystal with a lead permanently attached to the sensitive spot. This is a simple Point contact type of diode. The SEMI-CONDUCTOR is not new; just re-discovered. Crystal diodes were in use in World War II for radar and high frequency applications. These were germanium rectifiers which replaced the large bulky vacuum tube diode type of rectifiers.

Materials used for SEMI-CONDUCTORS are a solid as opposed to a gas or liquid. There are two basic materials used today although many more are known to have near like qualities. The two in question are GERMANIUM and SILICON, both being crystalline in nature. Unlike pure fine gems, both of these crystal substances in their natural state are not pure crystalline in structure and these impurities we will find are the reasons or dependencies upon which electrical conduction can take place. For example; Silver is a near pure substance and is known for its high conductivity. Mica is known to be a good insulator because of its high internal resistance. GERMANIUM and SILICON fall between these two substances and are called SEMI-CONDUCTORS because they both oppose and conduct the free flow of electrons within them. To more thoroughly understand the reasons behind the workings of SEMI-CONDUCTORS a reasonable knowledge of the Atomic make-up of the basic material is a must.

THIS then is the meat of Chapter Two.

K4FQU

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Long Distance and Mr. Clark

The telephone rings... "Hello"..... "Yes this is Andy Clark." "Hello, Mr. Clark, this is Miss Nix of the United States Bureau of Standards at Boulder City, Colo. I just wanted to acknowledge your card of two months ago on which you requested a photograph of WWV." "Yes Miss Nix, I remember the card." "Well, I'm sorry we're so slow in answering, but we will be happy to send you a photo or two for your publication FLORIDA SKIP... By the way, what kind of publication is FLORIDA SKIP?" "Oh, it's an amateur radio publication..." "Oh how nice... I think I recall seeing a copy on my bosses desk..." "Thank you very much Miss Nix for calling and we'll look forward to receiving the photos..." "Good bye, Mr. Clark..." "Good-bye..." Click.